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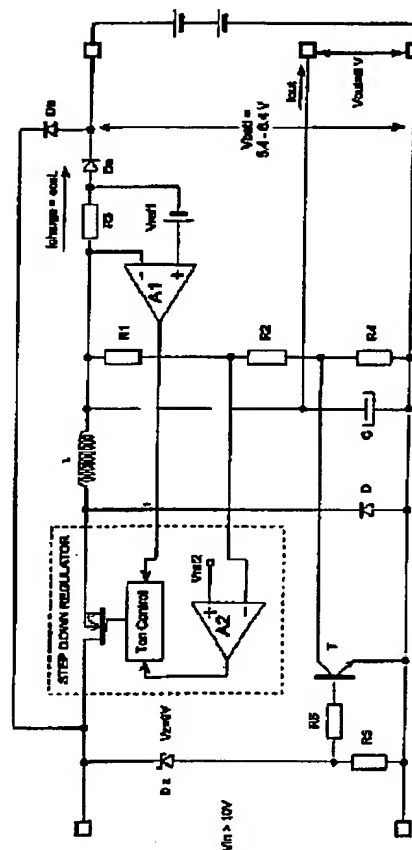
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TITLE : MULTIFUNCTIONAL BATTERY CHARGER SELF-ALIGNED AS SUPPLY VOLTAGE REGULATOR FOR DEVICE RECEIVING POWER FROM THE BATTERY



ABSTRACT : PROBLEM TO BE SOLVED: To regulate the supply voltage to a load like a portable equipment such as a mobile phone which is supplied with power by a rechargeable battery.

SOLUTION: This charger has a second current mode controlling loop which includes a current sensing resistor R3 and a first error amplifier A1 and a second voltage mode controlling loop which includes an output voltage sensing divider R1-R2 and a second error amplifier A2. By biasing two diodes Da and Db properly and thereby cutting off the flow of current into the current sensing resistor R3, the operation of the current mode loop including the resistor is restricted.

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